



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/304,967	0	5/05/1999	GEORGE P. LOMONOSSOFF	50176-052	1449
23535	7590	11/13/2003		EXAM	INER
MEDLEN (ARROLL, LLP GUZO, DAVID			
SUITE 350	CD STREE		ART UNIT	PAPER NUMBER	
SAN FRAN	CISCO, C	A 94105		1636	26

DATE MAILED: 11/13/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office A -4i Comment		09/304,967	LOMONOSSOFF ET AL.
	Office Action Summary	Examiner	Art Unit
		David Guzo	1636
Period f	The MAILING DATE of this communication or Reply	appears on the cover she	et with the correspondence address
THE - Extended - If th - If No - Fail - Any	MORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO ensions of time may be available under the provisions of 37 CFr sIX (6) MONTHS from the mailing date of this communication e period for reply specified above is less than thirty (30) days, a O period for reply is specified above, the maximum statutory peure to reply within the set or extended period for reply will, by streply received by the Office later than three months after the month and patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, m reply within the statutory minimum riod will apply and will expire SIX (6) atute, cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered timely.) MONTHS from the mailing date of this communication. me ABANDONED (35 U.S.C. § 133).
_	Responsive to communication(s) filed on 2	0 June 2003	
		his action is non-final.	
,—	Since this application is in condition for allo closed in accordance with the practice under	wance except for formal	
Disposit	tion of Claims		
4)🖂	Claim(s) 30, 31, 36, 37 and 49-56 is/are pe	ending in the application.	
,	4a) Of the above claim(s) is/are with	drawn from consideration	ı .
5)[Claim(s) is/are allowed.		
6)⊠	Claim(s) 30,31,36,37 and 49-56 is/are reject	cted.	
7)	Claim(s) is/are objected to.		
8)	Claim(s) are subject to restriction an	nd/or election requirement	t.
Applicat	tion Papers		
9)	The specification is objected to by the Exam	niner.	
. —	The drawing(s) filed on <u>05 May 1999</u> is/are:		bjected to by the Examiner.
, , <u> </u>	Applicant may not request that any objection to	,	•
	Replacement drawing sheet(s) including the cor	- · ·	•
11)🔯	The oath or declaration is objected to by the		
,	under 35 U.S.C. §§ 119 and 120		
12)⊠	Acknowledgment is made of a claim for fore	eign priority under 35 U.S	S.C. § 119(a)-(d) or (f).
13)	All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur See the attached detailed Office action for a Acknowledgment is made of a claim for dominice a specific reference was included in the B7 CFR 1.78. a) The translation of the foreign language Acknowledgment is made of a claim for dominication.	tents have been received priority documents have be reau (PCT Rule 17.2(a)). list of the certified copies estic priority under 35 U.S. if irst sentence of the sperman provisional application has estic priority under 35 U.S.	in Application No. 08/137,032. been received in this National Stage not received. S.C. § 119(e) (to a provisional application cification or in an Application Data Shee as been received. S.C. §§ 120 and/or 121 since a specific
	eference was included in the first sentence of		
Attachmei	nt(s)		
1) 🔲 Noti	ce of References Cited (PTO-892)		riew Summary (PTO-413) Paper No(s)
2) 🔲 Noti	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(5) Notice	e of Informal Patent Application (PTO-152)

Art Unit: 1636

Detailed Action

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/20/03 has been entered.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 30-31, 36-37, 49-51, 53-55 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 22-25 of U.S. Patent No. 5,958,422 (hereafter the '422 patent). Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 30-31, 36-37, 49-51 and 53-55 are generic to all that is recited in claims 22-25 of the '422 patent. That is, claims 22-25 of the '422 patent fall entirely within the scope of the

Art Unit: 1636

instant claims, in other words, the instant claims are anticipated by claims 22-25 of the '422 patent. The claims in the '422 patent recite the same method steps for making plant virus particles wherein the plant virus is a comovirus while the instant claims are directed to making any plant virus particles. Specifically, both sets of claims recite insertion of a foreign nucleotide sequence encoding a foreign peptide into the coat protein gene of a plant virus comprising use of restriction endonuclease digestion and a pair of complementary oligonucleotides and wherein the site of insertion is free of direct nucleotide sequence repeats and wherein the inserted sequence is an addition to the plant viral nucleic acid.

Claims 30-31, 36-37, 49-51 and 53-55 are directed to an invention not patentably distinct from claims 22-25 of commonly assigned U.S. Patent 5,958,422. Specifically, the claims are not patentably distinct for the reasons recited in the above Obviousness Type Double Patenting rejection.

The U.S. Patent and Trademark Office normally will not institute an interference between applications or a patent and an application of common ownership (see MPEP § 2302). Commonly assigned 5,958,422, discussed above, would form the basis for a rejection of the noted claims under 35 U.S.C. 103(a) if the commonly assigned case qualifies as prior art under 35 U.S.C. 102(f) or (g) and the conflicting inventions were not commonly owned at the time the invention in this application was made. In order for the examiner to resolve this issue, the assignee is required under 35 U.S.C. 103(c) and 37 CFR 1.78(c) to either show that the conflicting inventions were commonly owned at the

Art Unit: 1636

time the invention in this application was made or to name the prior inventor of the conflicting subject matter. Failure to comply with this requirement will result in a holding of abandonment of the application.

A showing that the inventions were commonly owned at the time the invention in this application was made will preclude a rejection under 35 U.S.C. 103(a) based upon the commonly assigned case as a reference under 35 U.S.C. 102(f) or (g), or 35 U.S.C. 102(e) for applications filed on or after November 29, 1999.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 30-31, 36-37 and 49-56 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 30, 49 and 53 (and dependent claims) are vague in that they appear to lack essential elements and steps. Applicants recite a method for producing plant virus particles but only recite a plant viral nucleic acid comprising a viral coat protein encoding nucleic acid comprising a foreign insert nucleic acid and then recite "infecting plant material", presumably with said nucleic acid, so as to generate the plant viral particles. It is unclear where the remaining plant viral nucleic acid sequences necessary for plant viral particle synthesis are provided and it is unclear how viral nucleic acids, which are normally encapsidated within infectious viral particles, can themselves **infect** host cells. Additionally, the claim is unclear because in order to

Art Unit: 1636

generate the assembled viral particles in the last step of the method (step "d") you would need to already have the assembled viral particles to infect the host cells in step "c" of the claim.

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because: The filing dates for the 08/612,858 and 08/137,032 applications are incorrect. The filing date for the 08/612,858 application is June 5, 1996 and the filing date of the 08/137,032 application is December 15, 1993.

Also, in the priority claim on the first page of the specification, the PCT data is incorrect; the PCT application should be PCT/GB92/00589, not "PCT/GB20/00589".

All rejections not repeated in this Office Action are withdrawn. Applicants' arguments directed to the now withdrawn rejection(s) are moot.

No Claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Guzo, Ph.D., whose telephone number is (703) 308-1906. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 5:30 PM. The examiner can also be reached on alternate Fridays.

Art Unit: 1636

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Irem Yucel, Ph.D., can be reached on (703) 305-1998. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

David Guzo November 10, 2003 PRIMARY EXAMINER